

AMENDMENTS TO THE CLAIMS

1. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising transmit means for transmitting signals from said communications device to another communications device, said signals being transmitted first in respective communications establish processes performed between said communications device and the other communications device so as to establish data communications between said communications device and the other communications device.

2. (Original) The communications device of claim 1, wherein:

the other communications device is a central control device for managing a transmission right for the communications network;

the data communications are a downlink stream communications from the other communications device to said communications device; and

the transmit means transmits a request signal, as said signals, to the other communications device, the request signal indicating a request for an ACK information specify process related to group ACK to establish the downlink stream communications.

3. (Original) The communications device of claim 2, wherein the request signal also indicates information on a group ACK type desired by said communications device and information on a stream receive buffer size in said communications device.

4. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

receive means for receiving signals from another communications device, said signals being transmitted first in respective communications establish processes performed between said communications device and the other communications device so as to establish data communications between said communications device and the other communications device; and

transmit means for transmitting, to the other communications device, response signals respectively to said signals which are transmitted first.

5. (Original) The communications device of claim 4, wherein:

said communications device is a device for managing a transmission right for the communications network;

the data communications is a downlink stream communications from said communications device to the other communications device; and

the receive means receives a request signal, as said signals, from the other communications device, the request signal indicating a request for an ACK information specify process related to group ACK to establish the downlink stream communications.

6. (Original) The communications device of claim 5, wherein the response signals also indicate information on a group ACK type desired by said communications device and information on a stream transmit buffer size in said communications device.

7. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

receive means for receiving a first request signal from another communications device so as to establish data communications between said communications device and the other communications device, said first request signal indicating a request for a first communications establish process;

determine means for determining whether to accept the request in the first request signal;
and

transmit means for transmitting a second request signal indicating a request for a second communications establish process to the other communications device so as to establish data communications between said communications device and the other communications device,

wherein if the determine means has accepted the request, the transmit means transmits the second request signal to the other communications device.

8. (Original) The communications device of claim 7, wherein:

said communications device is a device for managing a transmission right for the communications network;

the data communications is a downlink stream communications from the other communications device to said communications device;

the receive means receives a request signal, as the first request signal, indicating a request for a bandwidth information specify process; and

the transmit means transmits a request signal, as the second request signal, indicating a request for an ACK information specify process related to group ACK.

9. (Original) The communications device of claim 8, further comprising:

a MAC sublayer for transmitting a request signal indicating a request that the other communications device specify ACK information related to group ACK; and

a management layer, provided with the determine means, for managing the MAC sublayer,

wherein if the determine means has accepted the request, the management layer issues an instruction to the MAC sublayer to transmit a request signal indicating a request for specification of the ACK information related to group ACK.

10. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

transmit means for transmitting a request signal indicating a request for a predetermined communications establish process to another communications device so as to establish data communications between said communications device and the other communications device;

receive means for receiving, from the other communications device, a response signal to the request signal;

determine means for determining based on the response signal whether the predetermined communications establish process has been performed; and

notify means for notifying the other communications device of a determination made by the determine means.

11. (Original) The communications device of claim 10, wherein:

the other communications device is a central control device for managing a transmission right for the communications network;

the data communications are a downlink stream communications from the other communications device to said communications device;

the transmit means transmits a request signal, as the request signal, indicating a request for a bandwidth information specify process; and

the determine means determines whether the bandwidth information specify process has been performed.

12. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

receive means for receiving a request signal from another communications device so as to establish data communications between said communications device and the other communications device, the request signal indicating a request for a communications establish process which includes a process of specifying predetermined information; and

compare means for comparing said communications device with the other communications device in priority on the basis of the request signal,

wherein if the other communications device has higher priority, said communications device transmits a response signal indicating the predetermined information to the other communications device so as to establish data communications between said communications device and the other communications device.

13. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

receive means for receiving a request signal from another communications device so as to establish data communications between said communications device and the other communications device, the request signal indicating a request for a communications establish process which includes a process of specifying predetermined information; and

compare means for comparing said communications device with the other communications device in priority on the basis of the request signal,

wherein if said communications device has higher priority, said communications device transmits a response signal to the other communications device so as to establish data communications between said communications device and the other communications device, the response signal including a process of specifying information specified by said communications device.

14. (Currently amended) The communications device of ~~either one of claims 12 and 13~~, claim 12 wherein:

the communications establish process is an ACK information specify process related to group ACK; and

the request signal includes information on group ACK type.

15. (Currently amended) The communications device of ~~any one of claims 12 to 14~~, claim 12, wherein:

the request signal includes information as to whether the other communications device from which the request signal originates is a source or a destination in the data communications;

the priority is determined based on whether the other communications device from which the request signal originates is a source or a destination in the data communications.

16. (Original) A communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

transmit means for transmitting a first request signal to another communications device so as to establish data communications between said communications device and the other communications device; and

receive means for receiving a second request signal from the other communications device so as to establish data communications between said communications device and the other communications device,

wherein the first request signal indicates information as to whether said communications device is a source or a destination in the data communications.

17. (Currently amended) A network system, comprising:

the communications device of claim 1; and

the communications device of ~~claim 4~~, a communications device which is part of a network system involving multiple communications devices and a communications network connecting the devices,

said communications device comprising:

receive means for receiving signals from another communications device, said signals being transmitted first in respective communications establish processes performed between said communications device and the other communications device so as to establish data

communications between said communications device and the other communications device; and

transmit means for transmitting, to the other communications device, response signals respectively to said signals which are transmitted first.

18. (Original) A network system, comprising:

the communications device of claim 7; and

another communications device connected to the communications device over the communications network.

19. (Original) A network system, comprising:

the communications device of claim 10; and
a central control device, connected to the communications device over the
communications network, for managing a transmission right for the communications network.

20. (Canceled)

21. (Canceled)

22. (Canceled)

23. (Canceled)

24. (Canceled)

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (New) The communications device of claim 1, wherein said signals being transmitted first indicate information based on which the data communications are established, the information being required when said one of communications devices acts as any one of a source device, a destination device, and a central control device for managing a communications right for the network in the data communications.

31. (New) The communications device of claim 1, wherein: said signals being transmitted first are transmitted from the at least one communications device to the central control device for managing the network, and are request signals enabling establishment of downlink stream communications from the central control device to the at least one communications device; and
said signals being transmitted first indicate information being required so that the at least one communications device which is a destination of streaming data specifies ACK information related to group ACK.

32. (New) The communications device of claim 4, the response signal indicating information being required when said one of communications device acts as any one of a source device, destination, and a central control device managing a communications right for the network in the data communications, the information enabling establishment of the data communications.

33. (New) The communications device of claims 4, the response signal being made in response to a request signal enabling establishment of downlink stream

communications from the central device to the at least one communications device,

the response signal indicating information enabling the central control device which is a source of streaming data to specify ACK information related to group ACK.

34. (New) A computer program causing a computer to function as the means of the communications device of claim 1.

35. (New) A storage medium containing the computer program of claim 34.